

# **Headquarters U.S. Air Force**

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## **Preventive Medicine Update to the Armed Forces Epidemiological Board**

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# Overview

- **Windows for multi-dose/booster immunizations (adults)**
  - **General rules**
  - **Application**
    - **Booster vaccines**
    - **“Yellow periods”**
  - **Discussion**



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# **General Rule**

## **Interval between doses of the same vaccine**

- A. Increasing the interval between doses of a multi-dose vaccine does not diminish the effectiveness of the vaccine**
- B. Decreasing the interval between doses of a multi-dose vaccine may interfere with antibody response and protection**
  - Vaccine doses should not be given at the intervals less than the minimum intervals**

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Source: Pink Book, 7<sup>th</sup> ed., Jan 03



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# *Application*

- **How do these general rules apply to the booster dose?**
- **Can booster dose vaccine be given earlier than the recommended intervals?**
  - **Example: Td current w/in 5 years for “dirty” wounds**
  - **Benefits of providing early booster dose:**
    - **Provide more time/opportunity to reach personnel**
    - **Ensure vaccination status remains current**
    - **Prevent overdue, especially during deployment**



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# ***Application***

- AF policy requires immunizations are monitored and kept current in the AF Complete Immunization Tracking Application (AFCITA)
- AFCITA prompts vaccination
  - “Green”- Vaccination current; no action
  - “Yellow”- Due for vaccination; drives action
  - “Red” - Overdue; negative impact on Individual Medical Readiness (IMR) rate



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# **“Yellow Periods” for Multi-dose Vaccines**

Vaccine	Dose #	Date YP starts	Additional YP
Hep A	2	<b>6 mos after dose #1</b>	<b>+ 6 mos</b>
Hep B	2	<b>1 mos after dose #1</b>	<b>+ 1 mos</b>
	3	<b>5 mos after dose #2</b>	<b>+ 1 mos</b>
Varicell	2	<b>4 wks after dose #1</b>	<b>+ 1 mos</b>

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# **“Yellow Periods” for Booster Vaccines**

<b>Vaccine</b>	<b>Dose #</b>	<b>Date YP starts</b>	<b>Additional YP</b>
<b>Meningococcal</b>	<b>Q 5 yr</b>	<b>4 yrs 9 mos from last dose</b>	<b>+ 3 mos</b>
<b>Td</b>	<b>Q 10 yr</b>	<b>9 years 9 mos from last dose</b>	<b>+ 3 mos</b>
<b>Typhoid, injectable</b>	<b>Q 2 yr</b>	<b>1 year 9 mos from last dose</b>	<b>+ 3 mos</b>
<b>Yellow Fever</b>	<b>Q 10 yr</b>	<b>9 years 9 mos</b>	<b>+ 3 mos</b>



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# ***Conclusion/Discussion***

- **“Yellow Periods:” Adapted for AFCITA management and to meet operational demands**
  - Increase opportunity for vaccination
  - Maintain currency
  - Ensure deployed expeditionary forces are protected
- **Discussion: Reasonable, safe, provides adequate immunity?**